This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended)   A method of transmitting and receiving an image between a transmitter and a receiver, comprising,

when transmitting the image: the steps of:

performing a forward transformation on the image to be transmitted;

defining the required regions of interest in the image;

creating a mask describing transform coefficients for reconstructing each region of interest;

utilizing the mask to classify the transform coefficients into segments;

coding each segment independently;

concatenating the bit stream of each segment together with necessary stream and header information; and

sending the concatenated bit stream to the receiver; and

when receiving the image:

receiving the concatenated bit stream and decoding the header information;

locating and decoding the segment information associated with the regions of interest in the concatenated bit stream;

creating a mask describing which coefficients are needed for reconstructing the segments of each region of interest;

decoding the needed segment data from the concatenated bit stream; and

reconstructing the needed segments for displaying the reconstructed segments.

dividing the image into at least two image regions;

coding the image regions into a coded symbol stream, said coding utilising a symbolic representation and having predetermined accuracy levels in said image regions;

compressing the coded symbol stream into a compressed bit stream;

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~~generating a definition of an outer boundary line of at least one of the image regions;~~

~~transmitting said definition to the receiver;~~

~~transmitting the compressed bit stream to the receiver; and~~

~~decoding in the receiver with the aid of said definition~~

2.   (Currently Amended)   The method of claim 1, wherein [[two]] <u>prior to transmitting the image,</u> different image regions are coded to have ~~said~~ predetermined accuracy levels <u>independent</u> ~~independently~~ of each other.

3.   (Canceled)

4.   (Currently Amended)   The method of claim 1, ~~2, or 3,~~ wherein <u>when receiving the image,</u> only predetermined parts of the ~~compressed~~ bit stream are decoded.

5.   (Currently Amended)   The method of <u>claim 1</u> ~~any of the claims 1, 2, or 3,~~ further comprising generating a topology description, <u>prior to transmitting the image,</u> defining the topological relationship between objects and shapes in the image.

6.   (Currently Amended)   The method of <u>claim 1</u> ~~any of the claims 1, 2, or 3,~~ further comprising generating a shape description, <u>prior to transmitting the image,</u> ~~defining the appearance of~~ <u>for determining</u> the closed boundary line of an object in the image.

7.   (Currently Amended)   The method of <u>claim 1</u> ~~any of the claims 1, 2, or 3,~~ further comprising generating a segment description <u>prior to transmitting the image,</u> ~~defining which~~ <u>determining the</u> transform coefficients that belong to <u>a</u> respective segment.

    8.   (Currently Amended)   The method of claim 7, further comprising generating a subset description, prior to transmitting the image, ~~defining which~~ determining the transform coefficients that belong to an independently decodable part of a segment.

    9.   (Currently Amended)   The method of claim 8, further comprising generating a pointer, prior to transmitting the image, for defining a position in the bit stream of a descriptor associated with an object in the image. ~~for the respective one of the above mentioned descriptions.~~

    10.   (Currently Amended)   An arrangement for transmitting an image, comprising:

    - a transmitter and a receiver, wherein the transmitter comprises:

    means for performing a forward transformation on the image to be transmitted;

    means for defining the required regions of interest in the image;

    means for creating a mask describing transform coefficients for reconstructing each region of interest;

    classification means for utilizing the mask to classify the transform coefficients into segments;

    a coding device for coding each segment independently and to provide the number of bits for each segment;

    concatenating means for concatenating the bit stream of each segment together with necessary stream and header information; and

    means for sending the concatenated bit stream to the receiver; and wherein the receiver comprises:

    receiver means for receiving the concatenated bit stream and decoding the header information;

    means for locating and decoding the segment information associated with the regions of interest in the bit stream;

<u>means for creating a mask describing which coefficients are needed for reconstructing the segments of each region of interest;</u>

<u>a decoder for decoding the needed segment data from the bit stream; and reconstructing the needed segments for displaying the reconstructed segments.</u>

~~means for dividing the image into at least two image regions;~~

~~a coding device for coding the image regions into a coded symbol stream, said coding device utilising a symbolic representation and having predetermined accuracy levels in said regions;~~

~~a compressing device for compressing the coded symbol stream into a compressed bit stream; and~~

~~means in the transmitter for transmitting said compressed bit stream to the receiver;~~

~~means for generating a definition of an outer boundary line of at least one of the image regions;~~

~~means in the transmitter for transmitting said definition to the receiver; and~~

~~a decoder in the receiver for decoding of the compressed bit stream with the aid of said definition.~~

11.   (Currently Amended)   The arrangement of claim 10, wherein the coding device is arranged to encode [[two]] different image regions to have [[the]] predetermined accuracy levels independent of each other.

12.   (Canceled)

13.   (Currently Amended)   The arrangement of claim 10, [[11, or 12,]] wherein the decoder is arranged to decode only predetermined parts of the compressed bit stream.

14.   (Currently Amended)   The arrangement of claim 10 [[, 11, or 12]] wherein the transmitter has means for generating a topology description, defining the topological relationship between objects and shapes in the image.

15.   (Currently Amended)   The arrangement of claim 10 [[, 11, or 12]] wherein the transmitter has means for generating a shape description, defining ~~the~~ ~~appearance of~~ the closed boundary line of an object in the image.

16.   (Currently Amended)   The arrangement of claim 10, [[11, or 12,]] wherein the transmitter has means for generating a segment description, ~~defining~~ <u>determining</u> which transform coefficients [[that]] belong to <u>a</u> respective segment.

17.   (Currently Amended)   The arrangement of claim 16, wherein the transmitter has means for generating a subset description, ~~defining~~ <u>determining</u> which transform coefficients [[that]] belong to an independently decodable part of a segment.

18.   (Currently Amended)   The arrangement of claim 17, wherein the transmitter has means for generating a pointer, ~~defining~~ <u>that identifies</u> a position in the bit stream for the respective one of the above mentioned descriptions.